

QUIZ 6

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_6.py
Enter two integers: 0 0
Here is the grid that has been generated:
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
  0 0 0 0 0 0 0 0 0 0
```

The largest isosceles triangle has a size of 0

```
$ python3 quiz_6.py
Enter two integers: 0 1
Here is the grid that has been generated:
  1 1 0 1 1 1 1 1 1 0
  0 1 0 0 1 0 1 0 0 1
  1 0 1 1 1 0 1 1 1 0
  0 0 1 0 1 1 0 1 0 0
  0 0 0 1 0 0 1 1 0 1
  1 0 1 0 1 1 0 1 1 0
  1 0 0 0 0 1 1 0 0 0
  0 0 0 1 1 0 0 1 1 1
  1 1 0 1 0 1 1 0 0 0
  1 0 0 1 0 1 1 0 0 0
```

The largest isosceles triangle has a size of 2

```
$ python3 quiz_6.py
Enter two integers: 0 2
Here is the grid that has been generated:
  1 1 0 1 1 1 1 1 1 1
  1 0 1 0 1 0 0 1 1 1
  1 1 0 1 0 1 0 1 1 1
  1 0 1 1 1 1 1 0 1 1
  1 1 1 0 1 0 0 1 1 1
  1 1 0 1 1 1 0 1 1 1
  0 0 1 0 0 0 1 1 0 0
  1 1 1 0 1 1 1 1 0 1
  1 1 0 1 1 1 1 1 0 1
  1 1 1 0 1 0 0 0 0 1
```

The largest isosceles triangle has a size of 3

```
$ python3 quiz_6.py
```

```
Enter two integers: 0 3
```

```
Here is the grid that has been generated:
```

```

1 1 0 1 1 1 1 1 1
1 1 1 0 1 1 1 0 0 1
1 0 1 1 1 1 1 1 1 0
0 0 1 0 1 1 1 1 0 1
1 1 1 1 0 0 1 1 0 1
1 0 1 1 1 1 0 1 1 1
1 1 1 1 0 1 1 0 0 1
1 0 0 1 1 1 1 1 1 1
1 1 0 1 0 1 1 1 1 0
1 0 1 1 1 1 1 0 0 1

```

```
The largest isosceles triangle has a size of 3
```

```
$ python3 quiz_6.py
```

```
Enter two integers: 0 4
```

```
Here is the grid that has been generated:
```

```

1 1 0 1 1 1 1 1 1 1
1 1 1 1 1 1 0 1 1 1
1 1 1 0 0 1 1 1 0 1
1 1 1 1 1 1 1 1 1 0
1 0 0 1 0 1 1 1 1 1
0 1 1 1 1 1 1 1 0 0
1 1 1 0 1 1 1 0 1 1
1 1 1 1 1 1 1 0 1 1
1 1 1 1 1 1 1 0 1 1
1 0 0 1 1 0 0 1 1 1

```

```
The largest isosceles triangle has a size of 4
```

```
$ python3 quiz_6.py
```

```
Enter two integers: 0 5
```

```
Here is the grid that has been generated:
```

```

1 1 0 1 1 1 1 1 1 1
1 1 1 1 1 1 0 1 1 1
1 1 1 1 0 1 0 1 1 1
1 0 1 1 1 1 1 1 1 1
1 1 1 0 1 0 0 1 1 1
1 1 0 1 1 1 1 1 1 1
0 1 1 1 1 1 1 1 0 0
1 1 1 0 1 1 1 1 0 1
1 1 1 1 1 1 1 1 0 1
1 1 1 1 1 1 1 1 0 1

```

```
The largest isosceles triangle has a size of 3
```

```
$ python3 quiz_6.py
```

```
Enter two integers: 0 6
```

```
Here is the grid that has been generated:
```

```
1 1 1 1 0 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 0 1 1 1 1 1 1 1 1
1 0 1 0 1 1 1 1 1 0
1 1 1 1 1 1 1 1 1 1
1 1 0 1 1 0 0 1 1 1
1 1 1 1 1 0 1 1 1 1
1 1 1 1 1 1 0 1 1 1
1 1 1 1 1 1 0 0 1 1
1 0 1 1 1 1 0 1 1 1
```

```
The largest isosceles triangle has a size of 4
```

```
$ python3 quiz_6.py
```

```
Enter two integers: 0 100
```

```
Here is the grid that has been generated:
```

```
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 0 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
```

```
The largest isosceles triangle has a size of 5
```